

Scholarly Profiles as Service



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IUPUI

Motivation

- Blog post: The Wikidata scholarly profile page [1]
- Development of Scholia [2]

Pilot Project

- Explore the utility of Wikidata and Scholia as a library service

[1] <https://finnaarupnielsen.wordpress.com/2016/09/30/the-wikidata-scholarly-profile-page/>

[2] <https://scholia.toolforge.org/>

Wikidata

- A collaboratively edited knowledge base
 - ~27 thousand contributors from around the world
- Stores structured linked data under a CC0 license
- It can be read by both humans and machines
- Project led by Wikimedia Deutschland
- Multilingual central repository

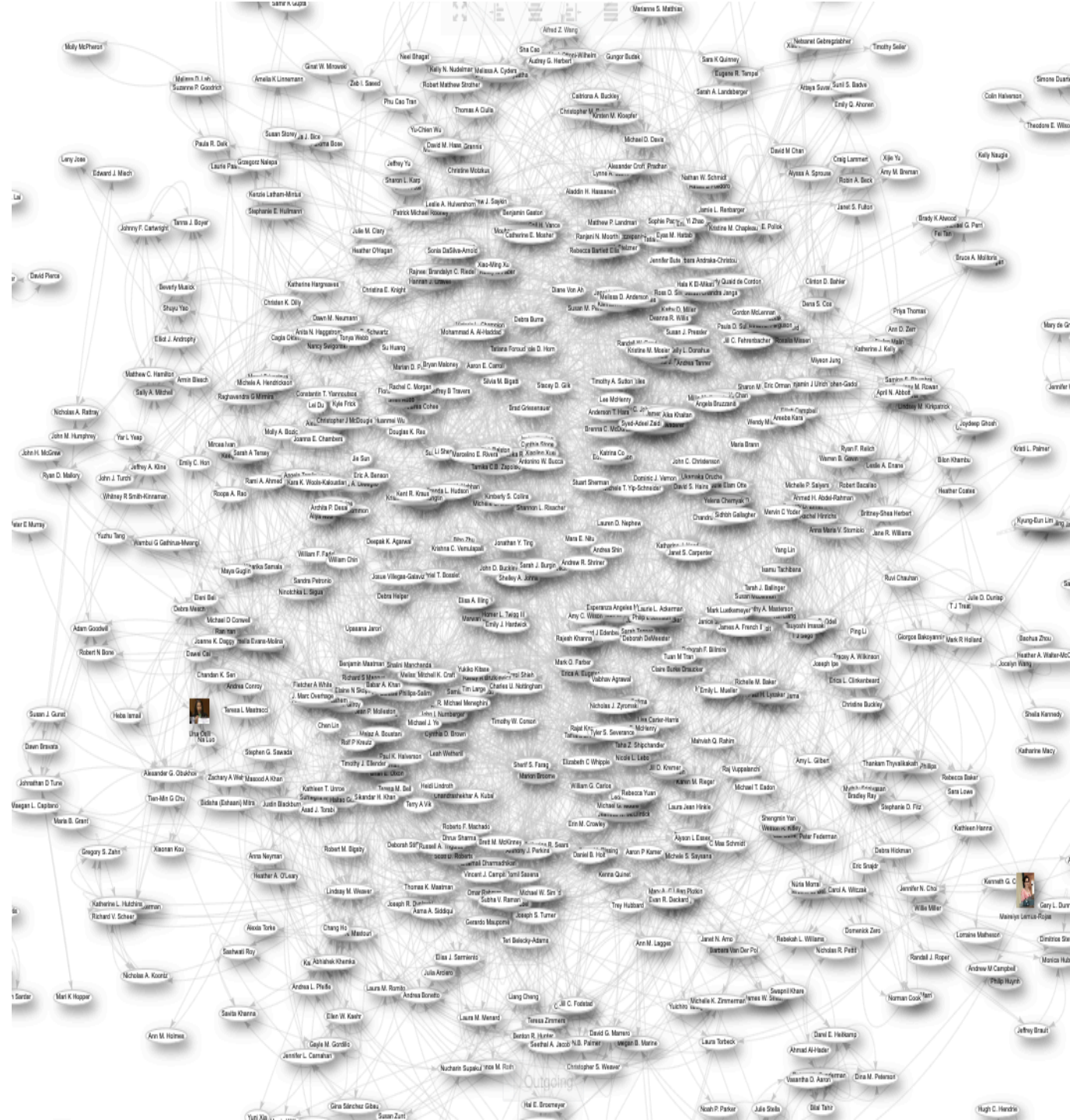
Wikidata Stats

- ~8 thousand properties
- ~92 million items
 - Includes a growing collection of open citation data
 - ~37 million scholarly articles
 - ~174 million citations
 - ~20 million links from works to authors (***author*** (P50) property)
 - ~135 million authors not linked to articles (***author name string*** (P2093) property)

Scholia

- Web service
- Pulls information from the Wikidata knowledge base
- Displays scientific bibliographic information (authors, works, organizations, venues, series, publishers, sponsors, awards)
- Used to generate researchers' profiles and search their scholarship

Scholia Interface: <https://scholia.toolforge.org>



Why using Wikidata for Scholarly Profiles?

- Aligns with our library's commitment to open knowledge [1]
- Ability to contribute to an open platform
- Opportunity to increase the representation of scholars
- Universities should “own” their scholarly records

[1] <http://www.ulib.iupui.edu/digitalscholarship/openknowledge>

Scholarly Profiles Pilot Project

- Conducted in 2017 (for 1 selected school)
- Explored the potential of Wikidata and Scholia for scholarly profiles
- Informed the development and implementation of the **Scholarly Profiles as Service** model

IUPUI Women Faculty Scholarly Profiles

We are focusing our efforts on:

- Creating entries for IUPUI women faculty (assistant, associate or full) across disciplines
- Connecting faculty to existing articles
 - *author name string* (P2093) to *author* (P50)
- Adding new articles and making connections with the authors

How Are We Doing This?

Current Workflow for Authors

Semi-automated data gathering

- Using the IMPORTXML function in Google Sheets:
IMPORTXML(url, xpath_query)
 - Author's name, job title, website URL

Manual process data gathering

- Authors' biographical data from the school's website
- Archiving URLs to use as part of the references
- Identifiers (Scopus, Google Scholar ID, ORCID)

- Downloading CVs





OpenRefine



QuickStatements



Wikidata

- Author's name
- Job title
- Bio data
(education history)
- Identifiers
- Website URL & Retrieved date
- Archived URL & Archived date

- Author's name
- Job title
- Bio data
(education history)
- Identifiers
- Website URL & Retrieved date
- Archived URL & Archived date

- Instance of
- Employment info
- Affiliated school
- Work location
- Language
- Sex or gender
- Occupation

- Instance of
- Employment info
- Affiliated school
- Work location
- Language
- Sex or gender
- Occupation

07: Amy Irby-Shasanni	
instance of [P31]: human [Q5]	
sex or gender [P21]: female [Q6581072]	
employer: Indiana	reference URL [P854]: "https://liberalarts.iupui.edu/about/directory/irby-shasanni-amy.html"
[P108] University –	retrieved [P813]: 2021-02-07
Purdue	archive: "https://web.archive.org/web/20210208041321/https://liberalarts.iupui.edu/about/directory/irby-shasanni-amy.html"
University	URL shasanni-amy.html"
Indianapolis	[P1065]
[Q1433199]	archive date [P2960]: 2021-02-07
affiliation: Indiana	reference URL [P854]: "https://liberalarts.iupui.edu/about/directory/irby-shasanni-amy.html"
[P1416] University School	retrieved [P813]: 2021-02-07
of Liberal Arts	archive: "https://web.archive.org/web/20210208041321/https://liberalarts.iupui.edu/about/directory/irby-shasanni-amy.html"
[Q6023649]	URL shasanni-amy.html"
	[P1065]
	archive date [P2960]: 2021-02-07
work : Indianapolis	reference URL [P854]: "https://liberalarts.iupui.edu/about/directory/irby-shasanni-amy.html"
location [Q6346]	retrieved [P813]: 2021-02-07
[P937]	archive: "https://web.archive.org/web/20210208041321/https://liberalarts.iupui.edu/about/directory/irby-shasanni-amy.html"
	URL shasanni-amy.html"
	[P1065]
	archive date [P2960]: 2021-02-07
languages spoken, : English	reference URL [P854]: "https://liberalarts.iupui.edu/about/directory/irby-shasanni-amy.html"
written or signed [Q1860]	retrieved [P813]: 2021-02-07
[P1412]	archive: "https://web.archive.org/web/20210208041321/https://liberalarts.iupui.edu/about/directory/irby-shasanni-amy.html"
	URL shasanni-amy.html"
	[P1065]
	archive date [P2960]: 2021-02-07

<p>(Q105380966)</p> <p>English</p> <p>Amy Irby-Shasanmi</p> <p>academic Amy Irby</p>		<p>☆ Watch</p> <p></p>
<p>∨ In more languages</p>		
<h2>Statements</h2>		
<p>instance of</p> <ul style="list-style-type: none"> human <p>0 references</p>	<p>occupation</p> <ul style="list-style-type: none"> university teacher <p>1 reference</p>	<p>work location</p> <ul style="list-style-type: none"> Indianapolis <p>1 reference</p>
<p>sex or gender</p> <ul style="list-style-type: none"> female <p>0 references</p>	<p>reference URL https://liberalarts.iupui.edu/about/directory/irby-shasanmi-amyl.html ∞</p> <p>retrieved 7 February 2021</p> <p>archive URL https://web.archive.org/web/20210208041321/https://liberalarts.iupui.edu/about/directory/irby-shasanmi-amyl.html ∞</p> <p>archive date 7 February 2021</p>	<p>reference URL https://liberalarts.iupui.edu/about/directory/irby-shasanmi-amyl.html ∞</p> <p>retrieved 7 February 2021</p> <p>archive URL https://web.archive.org/web/20210208041321/https://liberalarts.iupui.edu/about/directory/irby-shasanmi-amyl.html ∞</p> <p>archive date 7 February 2021</p>
<p>given name</p> <ul style="list-style-type: none"> Amy <p>0 references</p>	<p> researcher</p> <p>1 reference</p>	
<p>family name</p> <ul style="list-style-type: none"> Irby <p>series ordinal 1</p> <p>0 references</p>	<p>reference URL https://liberalarts.iupui.edu/about/directory/irby-shasanmi-amyl.html ∞</p> <p>retrieved 7 February 2021</p> <p>archive URL https://web.archive.org/web/20210208041321/https://liberalarts.iupui.edu/about/directory/irby-shasanmi-amyl.html ∞</p> <p>archive date 7 February 2021</p>	<p>affiliation</p> <ul style="list-style-type: none"> Indiana University School of Liberal Arts <p>1 reference</p>
<ul style="list-style-type: none"> Shasanmi <p>series ordinal 2</p> <p>0 references</p>		<p>reference URL https://liberalarts.iupui.edu/about/directory/irby-shasanmi-amyl.html ∞</p> <p>retrieved 7 February 2021</p> <p>archive URL https://web.archive.org/web/20210208041321/https://liberalarts.iupui.edu/about/directory/irby-shasanmi-amyl.html ∞</p> <p>archive date 7 February 2021</p>
<p>languages spoken, written or signed</p>	<p>employer</p> <ul style="list-style-type: none"> Indiana University – Purdue	

Current Workflow for Articles

Creating new article entries

- Using the SourceMD [1] & QuickStatements [2] tools
- Adding them manually if:
 - They don't have an identifier (DOI, PMID, PMCID)
 - No data is retrieved by the SourceMD tool

Linking existing article entries to researchers/faculty

- Using the Author Disambiguator [3] tool
- If/when the tool is down, making the connection manually

[1] https://sourcemd.toolforge.org/index_old.php

[2] <https://quickstatements.toolforge.org/#/>

[3] https://author-disambiguator.toolforge.org/names_oauth.php

Creating New Articles

Source MetaData

Source ID:

33446638

Check source

SourceMD

Source MetaData

Tools Git Talk

You can create a new item, or update an existing one, for this source in QuickStatements:

CREATE
LAST P698 "33446638"
LAST P932 "7809462"
LAST P356 "10.1038/S41398-020-01185-7"
LAST P31 Q13442814
LAST P1476 en:"The association of polygenic risk for schizophrenia, bipolar disorder, and depression with neural connectivity in adolescents and young adults: examining developmental and sex differences"
LAST Len "The association of polygenic risk for schizophrenia, bipolar disorder, and depression with neural connectivity in adolescents and young adults: examining developmental and sex differences"
LAST P407 Q1860
LAST P1433 Q15716636
LAST P478 "11"
LAST P433 "1"
LAST P577 +2021-01-14T00:00:00Z/11
LAST P304 "54"
LAST P2093 "J L Meyers" P1545 "1"
LAST P2093 "D B Chorlian" P1545 "2"

Open in QuickStatements

QuickStatements

CREATE Item

en:The association of polygenic risk for schizophrenia, bipolar disorder, and depression with neural connectivity in adolescents and young adults: examining developmental and sex differences

PubMed ID [P698]:"33446638"

PMCID [P932]:"7809462"

DOI [P356]:"10.1038/S41398-020-01185-7"

instance of [P31]:scholarly article [Q13442814]

title :en:"The association of polygenic risk for schizophrenia, bipolar disorder, and [P1476] depression with neural connectivity in adolescents and young adults: examining developmental and sex differences"

language of work or name [P407]:English [Q1860]

published in [P1433]:Translational Psychiatry [Q15716636]

volume [P478]:"11"

issue [P433]:"1"

publication date [P577]:2021-01-14

page(s) [P304]:"54"

author name string [P2093]:"J L Meyers" series ordinal [P1545]:"1"

author name string [P2093]:"D B Chorlian" series ordinal [P1545]:"2"

Wikidata

(Q105382563)

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English

The association of polygenic risk for schizophrenia, bipolar disorder, and depression with neural connectivity in adolescents and young adults: examining developmental and sex differences

No description defined

In more languages

Statements

instance of
scholarly article
0 references

author name string
J L Meyers
series ordinal 1
0 references

publication date
14 January 2021
0 references

title
The association of polygenic risk for schizophrenia, bipolar disorder, and depression with neural connectivity in adolescents and young adults: examining developmental and sex differences (English)
0 references

author
Tatiana Foroud
series ordinal 10
stated as T Foroud
0 references


published in
Translational Psychiatry
0 references

volume
11
0 references

page(s)
54
0 references

issue
1
0 references

Author Disambiguator

[Names](#) [Authors](#) [Works](#) [Batches](#) [Lists](#) 

Wikimedia user account: Mlemusrojas [\(log out\)](#)

Author name: ☒ Fuzzy match ☐ Wikibase search ☐ Specify name strings

Look for author

 Limit:

Additional SPARQL filters separated by semicolons (eg. for papers on Zika virus, enter wdt:P921 wd:Q202864): ☐ Filter potential authors as well?

Potential publications

25 publications found

[Click here to create clusters based on exact author strings rather than rougher matches.](#)

Group #1

[Check all](#) | [Uncheck all](#)

Title	Authors (identified)	Published In	Identifier(s)	Topic	Published Date	Match?
Gardner syndrome	[1] Parks ET , [2] Caldemeyer KS , [3] <input checked="" type="checkbox"/> Mirowski GW	Journal of the American Academy of Dermatology [missing]	DOI: 10.1067/MJD.2001.114574 [ORCID] PubMed: 11712044 [ORCID]		2001-12-01	

Linking Existing Articles to Authors





[Advanced](#) [Create alert](#) [Create RSS](#)

Found 1 result for 11712044

Save

Email

[> J Am Acad Dermatol](#). 2001 Dec;45(6):940-2. doi: 10.1067/mjd.2001.114574.

Gardner syndrome

[E T Parks](#)¹, [K S Caldemeyer](#), [G W Mirowski](#)

Affiliations

— collapse

Affiliation

¹ Department of Oral Surgery Medicine and Pathology, Indiana University Medical Center, Indianapolis, USA.

PMID: 11712044 DOI: [10.1067/mjd.2001.114574](#)

Property / author name string

- Mirowski GW

Property / author name string: Mirowski GW / rank

- Normal rank

Property / author name string: Mirowski GW / qualifier

- series ordinal: 3

Property / author name string: Mirowski GW / reference

stated in: Europe PubMed Central

PubMed ID: 11712044

reference URL: https://www.ebi.ac.uk/europepmc/webservices/rest/search?query=EXT_ID:11712044%20AND%20SRC:MED&resulttype=core&format=json

retrieved: 3 December 2019

-

Timestamp +2019-12-03T00:00:00Z

Timezone +00:00

Calendar Gregorian

Precision 1 day

Before 0

After 0

Property / author

+ Ginat W. Mirowski

Property / author: Ginat W. Mirowski / rank

+ Normal rank

Property / author: Ginat W. Mirowski / qualifier

+ series ordinal: 3

Property / author: Ginat W. Mirowski / qualifier

+ stated as: Mirowski GW

Property / author: Ginat W. Mirowski / reference

stated in: Europe PubMed Central

PubMed ID: 11712044

reference URL: https://www.ebi.ac.uk/europepmc/webservices/rest/search?query=EXT_ID:11712044%20AND%20SRC:MED&resulttype=core&format=json

retrieved: 3 December 2019

+

Timestamp +2019-12-03T00:00:00Z

Timezone +00:00

Calendar Gregorian

Precision 1 day

Before 0

After 0


SCHOLIA

Author
Work
Organization
Location
Event
Project
Award
Topic
Tools
Help

Search...

author

Ginat W. Mirowski (Q55633810)

List of publications 

Show 10 entries

Search: gardner syndrome

Date	Work	Type	Pages	Venue	Authors
2001-12-01	Gardner syndrome	scholarly article		Journal of the American Academy of Dermatology	Ginat W. Mirowski

location organization publisher

Indiana University – Purdue University Indianapolis (Q1433199)

Indiana University–Purdue University Indianapolis (IUPUI) is a public research university in Indianapolis, Indiana. A core campus of Indiana University that also offers Purdue University degrees, it is the result of a merger in 1969 of the Purdue Indianapolis Extension Center (1946) and Indiana University Indianapolis (1916). Located along the White River and Fall Creek, it sits upon a peninsula adjacent to Downtown Indianapolis. ... (from the [English Wikipedia](#))

Related: [Central Connecticut State University](#) · [Humboldt State University](#) · [Marshall University](#) · [Hampton University](#) · [Universidad de la República - Udelar](#) · [Ball State University](#) · [Rochester Institute of Technology](#) · [University of Arkansas](#) · [University of Central Arkansas](#) · [Hofstra University](#)

Employees and affiliated

Past and present employees, affiliated, and members

Show 10 entries

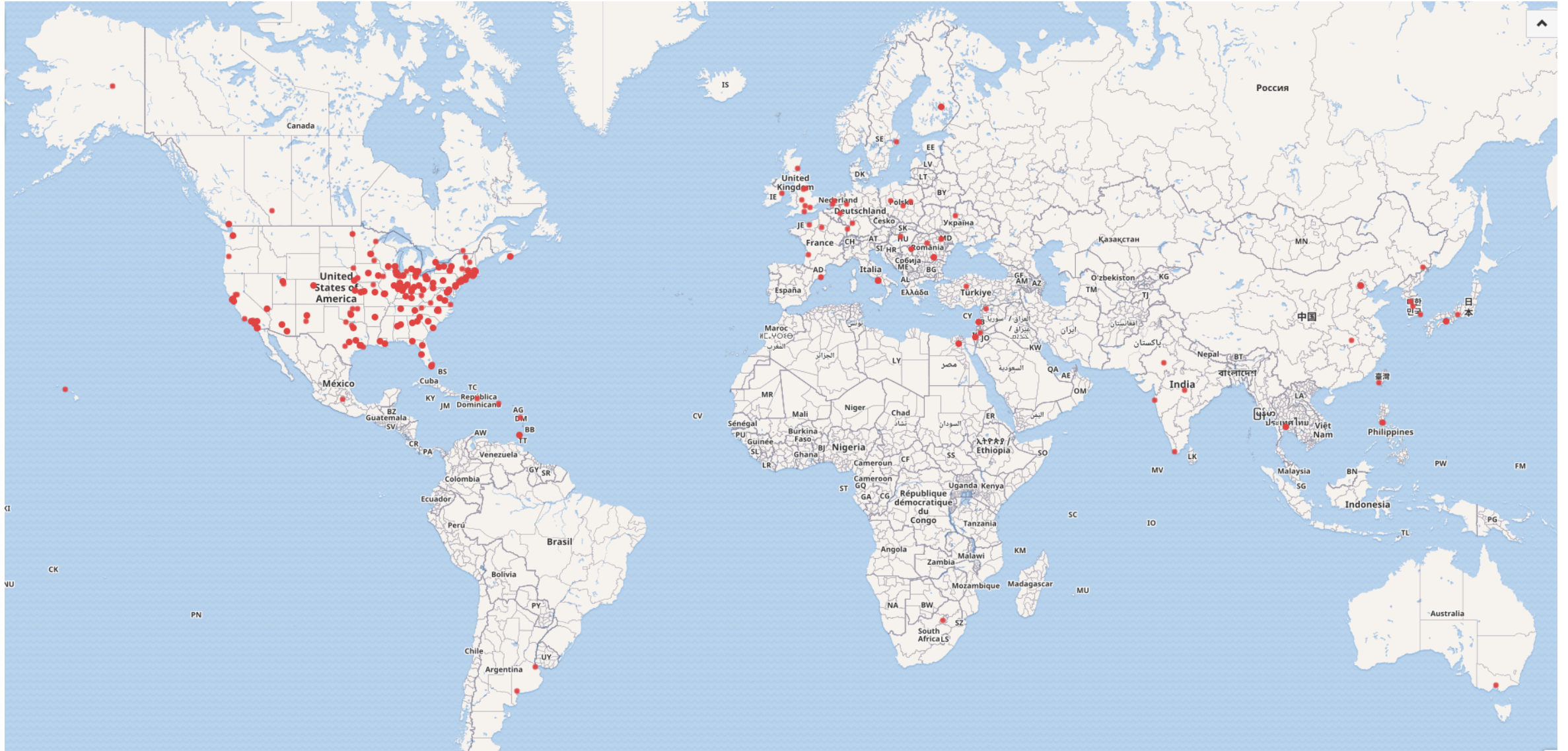
Search:

Works	Wikis	Researcher	Researcher description	Orcid
431	1	Tatiana Foroud	professor of medical & molecular genetics	0000-0002-5549-2212
331	0	Andrew J. Saykin	researcher	0000-0002-1376-8532
324	0	John I. Nurnberger	distinguished professor	0000-0002-7674-1767

What are the common topics of articles written by IUPUI faculty?

#	Work count	Topic	Type of topic	Superclass of topic	studied by	Sitelinks of item about topic	Sample IUPUI faculty having published on the topic
1	281	teenager	demographic profile	human population group	adolescent medicine	15	Matthew C. Aalsma
2	243	schizophrenia	rare disease	psychosis schizophrenia spectrum disorder		111	Tatiana Foroud
3	167	Alzheimer's disease	rare disease	tauopathy aging-associated diseases		118	Tatiana Foroud
4	160	COVID-19	emerging communicable disease atypical pneumonia	atypical pneumonia coronavirus disease viral pneumonia zoonosis		166	Mohamed A. Zaazoue
5	142	malaria	endemic disease	parasitic protozoa infectious disease vector-borne disease		164	Dibyadyuti Datta
6	122	autism	disability pervasive developmental disorder	autism spectrum		110	Aaron E. Carroll
7	117	obesity	Health risk and inequitable distribution of liquor stores in African American neighborhood.	overnutrition		122	Raghavendra G Mirmira
8	113	patient	state	human sick person customer		65	Jeremy D Greenlee
9	107	heart failure	complication	cardiovascular disease clinical sign cardiovascular system symptom		68	Tatiana Foroud
10	102	type-1 diabetes		diabetes mellitus autoimmune disease of endocrine system		37	Raghavendra G Mirmira
11	98	biomarker		indicator		28	Sunil S. Badve
12	85	endothelium	tissue medical term	simple squamous epithelium Meso-epithelium		41	Melissa Fishel
13	81	genome-wide association study		experiment		16	Andrew J. Saykin
14	79	mental health		health psychology absence health		59	Matthew C. Aalsma

Where did IUPUI faculty got their doctorate?



What's Next...

- Continue creating entries for IUPUI faculty/researchers across disciplines
- Continue connecting faculty/researchers to existing articles - ***author*** (P50)
- Continue adding new articles
- Continue connecting works – ***cites*** (P2860)
- Get consent from faculty/researchers to share their pictures in Wikimedia Commons under an open license (CC-BY-SA)
- Start creating entries for staff producing scholarship



wikidata

the free wiki-like database

Mairelys Lemus-Rojas

Open Knowledge Librarian

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